



Press Release

ebm-papst at Chillventa

Energy Efficient Solutions for All Applications

Chillventa, the leading trade show for energy efficiency, heat pumps and refrigeration technology, takes place this year in Nuremberg from October 11-13. ebm-papst will be presenting its latest fans and solutions for a range of applications in hall 4A at stand 313.

Revolutionary axial fan concept

Noise emission and energy efficiency are key aspects for axial fans used in the evaporators, condensers and heat exchangers in ventilation, refrigeration and air conditioning systems – in addition to the required air flow. To be able to fully exploit the potential available for optimization, the fan has to be considered as an entire system consisting of the impeller, motor, housing and control electronics. Efficiency improvements can only go hand in hand with improvements in aerodynamics. ebm-papst has taken on this challenge and developed a revolutionary concept for axial fans that will be presented for the first time at Chillventa.

AxiTop diffuser for axial fans with diameters of 1.25 meters

The size 1250 mm axial fans from ebm-papst have been equipped with new blades featuring an optimized inclination angle. The axial fans in this size category can now be combined with the AxiTop diffuser. Based on the improved aerodynamics and the simultaneous use of diffusers, energy consumption can be reduced by 25% and the overall efficiency level boosted by over 50%. Thanks to their powerful 6 kW electronics, they achieve airflow of up to 65,000 m³/h. These fans are used in electricity generation systems, gas plants and compressor stations, as well as in large refrigerating plants and condensers.

“FanScout” selection software now TÜV SÜD-certified

When the fan is too weak, this means insufficient cooling but when it is too strong, the fan consumes too much energy. To quickly and reliably find the optimal fan for the application in the extensive ebm-papst product range, the company has developed the “FanScout” selection software – also on show at Chillventa. The software is based on the measured characteristic diagrams for each fan/motor combination. This makes the operating data generated from the software extremely accurate. The calculation accuracy in comparison to real measurements is classified in the highest precision class – confirmed by TÜV SÜD. The selection process also finds fans for parallel operation in so-called FanGrids.

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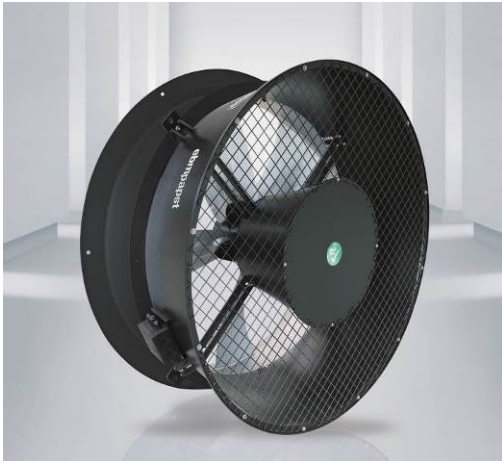


Fig. 1: An AxiTop diffuser is now available for size 1250 axial fans, which are used in refrigerating plants and condensers, for example.

Photo ebm-papst
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About ebm-papst

The ebm-papst Group is the world's leading manufacturer of fans and motors. Since it was founded, the technology company has continuously set global market standards. Developments have ranged from electronically controlled EC fans, through aerodynamic improvements of fan blades, and on to the resource-conserving selection of materials, with sustainable materials being just one option.

In fiscal year 2015/16, the company achieved sales of almost €1.7 billion. ebm-papst employs approximately 12,500 people at 18 production sites (in Germany, China, the United States and elsewhere) and in 57 sales offices worldwide. Fans and motors from the global market leader can be found in many industries, including ventilation, air conditioning and refrigeration, household appliances, heating, automobiles and drive engineering.

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